Appendix 6-3 PROGRAM / ENVIRONMENTAL DISCIPLINE TABLE

Changes in Programmatic Environmental Impacts by Discipline

This table provides an indication of the environmental impact of the changes in each program and project given in the 1995 EIS. The project numbers are the ones that are given in the 1995 EIS. Each activity with appreciable changes in environmental impacts would receive an indication of whether that change was positive (less environmental impact) or negative (greater environmental impact) compared to the impact analyzed in the 1995 EIS. A qualitative approach is used with the following symbols ↑ indicating a positive impact to the environment, blank for a neutral impact, and ↓ indicating a negative impact to the environment. The statements in the Environmental Impact Summary column are the source of the summary statements given in Appendix 6-1.

Environmental Discipline → / Project and Program Elements ↓	Land Use	Socioeconomics	Cultural Resources	Aesthetic and Scenic Resources	Geology	Air Resources	Water Resources	Ecology	Noise	Traffic and Transportation	Health and Safety	INEL Services	Facility Accidents	Cumulative Impacts	Unavoidable Adverse Environmental Affects	Short term/ Long Term Use	Irreversible and Irretrievable Commitments	Mitigation	Environmental Justice	**Environmental Impact Summary**
DECONTAMINATION AND DECOMMISSIONING																				
D&D C-2.5 Auxiliary Reactor Area II																				Impacts are no different than previously analyzed
D&D C-2.6 Boiling Water Reactor Experiment V																				Impacts are no different than previously analyzed
D&D C-4.2.1 Central Liquid Waste Processing Facility																				Impacts are no different than previously analyzed
D&D C-4.2.2 Engineering Test Reactor																				Impacts may be different than previously analyzed due to ground water impacts.

Environmental Discipline ➔ Project and Program Elements ↓	Land Use	Socioeconomics	Cultural Resources	Aesthetic and Scenic Resources	Geology	Air Resources	Water Resources	Ecology	Noise	Traffic and Transportation	Health and Safety	INEL Services	Facility Accidents	Cumulative Impacts	Unavoidable Adverse Environmental Affects	Short term/ Long Term Use	Irreversible and Irretrievable Commitments	Mitigation	Environmental Justice	**Environmental Impact Summary**
D&D C-4.2.3 Materials Test Reactor																				Impacts may be different than previously analyzed due to ground water impacts.
D&D C-4.2.4 Fuel Processing Complex																				Impacts may be different than previously analyzed due to ground water impacts.
D&D C-4.2.5 Fuel Receipt and Storage Facility																				Impacts may be different than previously analyzed due to ground water impacts.
D&D C-4.2.6 Headend Processing Plant																				Impacts may be different than previously analyzed due to ground water impacts.
D&D C-4.2.7 Waste Calcine Facility	↓						↓			↑	↑		↑	↓						The implemented D&D strategy was not addressed in the 1995 EIS. Entombment of the facility resulted in less radiological exposure but also left radiological wastes in the ground.
D&D Program																				Impacts are no different than previously analyzed

Environmental Discipline ➔ Project and Program Elements ↓	Land Use	Socioeconomics	Cultural Resources	Aesthetic and Scenic Resources	Geology	Air Resources	Water Resources	Ecology	Noise	Traffic and Transportation	Health and Safety	INEL Services	Facility Accidents	Cumulative Impacts	Unavoidable Adverse Environmental Affects	Short term/ Long Term Use	Irreversible and Irretrievable Commitments	Mitigation	Environmental Justice	**Environmental Impact Summary**
ENVIRONMENTAL RESTORATION																				
ER C-2.2 Remediation of Groundwater Contamination						↑	↑				↑	↑		↑		↑				Alternate ground water cleanup methods have resulted in positive impacts
ER C-2.3 Pit 9 Retrieval						↑	↓				↑	↑	↑	↑		↓				The impacts are due to the project being partially completed.
ER C-2.4 Vadose Zone Remediation																				Impacts are no different than previously analyzed
ER Program Element– Soil Remediation	↑				↑		↑				↑			↑						The ER program will cleanup environmental contamination and leave the environment in an approved long-term status
ER Program Element– Vadose Zone					↑		↑				↑			↑						The ER program will cleanup environmental contamination and leave the environment in an approved long-term status

Environmental Discipline ➔ Project and Program Elements ➓	Land Use	Socioeconomics	Cultural Resources	Aesthetic and Scenic Resources	Geology	Air Resources	Water Resources	Ecology	Noise	Traffic and Transportation	Health and Safety	INEL Services	Facility Accidents	Cumulative Impacts	Unavoidable Adverse Environmental Affects	Short term/ Long Term Use	Irreversible and Irretrievable Commitments	Mitigation	Environmental Justice	**Environmental Impact Summary**
ER Program Element–Groundwater					↑		↑				↑			↑						The ER program will cleanup environmental contamination and leave the environment in an approved long-term status
ER Program Element–Stewardship and Institutional Controls																				Impacts are no different than previously analyzed
HIGH-LEVEL WASTE																				
HLW C-2.7 High-Level Tank Farm Replacement – Upgrade Phase																				Impacts are no different than previously analyzed
HLW C-4.3.1 Tank Farm Heel Removal Project																				Impacts are no different than previously analyzed
HLW C-4.3.2 Waste Immobilization Facility																				This project was not selected for implementation in the ROD.
HLW C-4.3.3 High-Level Tank Farm New Tanks																				This project was not selected for implementation in the ROD.
HLW C-4.3.4 New Calcine Storage																				This project was not selected for implementation in the ROD.

Environmental Discipline ➔ Project and Program Elements ↓	Land Use	Socioeconomics	Cultural Resources	Aesthetic and Scenic Resources	Geology	Air Resources	Water Resources	Ecology	Noise	Traffic and Transportation	Health and Safety	INEL Services	Facility Accidents	Cumulative Impacts	Unavoidable Adverse Environmental Affects	Short term/ Long Term Use	Irreversible and Irretrievable Commitments	Mitigation	Environmental Justice	**Environmental Impact Summary**
HLW C-4.3.5 Radioactive Scrap/Waste Facility																				Impacts are no different than previously analyzed
HLW C-4.10.1 Calcine Transfer Project (Bin Set 1)	↑						↓			↑	↑		↑	↑						The impacts are a result of the project not being completed
INFRASTRUCTURE																				
INF C-2.11 Health Physics Instrument Laboratory																				Impacts are no different than previously analyzed
INF C-2.12 Radiological and Environmental Sciences Laboratory Replacement																				Impacts are no different than previously analyzed
INF C-4.9.1 Industrial/Commercial Landfill Expansion																				Impacts are no different than previously analyzed
INF C-4.9.2 Gravel Pit Expansions	↓							↓						↓						The New Silt/Clay Source Development EA provided for impacts greater than previously analyzed
INF C-4.9.3 Central Facilities Area Clean Laundry and Respirator Facility																				Impacts are no different than previously analyzed

Environmental Discipline ➔ Project and Program Elements ↓	Land Use	Socioeconomics	Cultural Resources	Aesthetic and Scenic Resources	Geology	Air Resources	Water Resources	Ecology	Noise	Traffic and Transportation	Health and Safety	INEL Services	Facility Accidents	Cumulative Impacts	Unavoidable Adverse Environmental Affects	Short term/ Long Term Use	Irreversible and Irretrievable Commitments	Mitigation	Environmental Justice	**Environmental Impact Summary**
INF Program – Replacing Site-wide Capital Equipment (GPCE)																				Impacts are no different than previously analyzed
INF Program – Environmental Monitoring and QA																				Impacts are no different than previously analyzed
INF Program – Buildings and Facilities																				Impacts are no different than previously analyzed
SPENT NUCLEAR FUEL																				
SNF C-2.1 Test Area North Pool Fuel Transfer	↑									↑										The site has a smaller footprint and received fewer shipments of TMI debris than planned.
SNF C-4.1.1 Expended Core Facility Dry Cell Project	↓									↑										Slightly negative impacts to land use and positive impacts to transportation
SNF C-4.1.2 Increased Rack Capacity for CPP-666										↑	↑	↑	↑	↑						Small positive impacts
SNF C-4.1.3 Additional Increased Rack Capacity										↑	↑	↑	↑	↑						Small positive impacts
SNF C-4.1.4 Dry Fuel Storage Facility; Fuel Receiving, Canning/Characterization, and Shipping	↑									↑										Small positive impacts

Environmental Discipline ➔ Project and Program Elements ↓	Land Use	Socioeconomics	Cultural Resources	Aesthetic and Scenic Resources	Geology	Air Resources	Water Resources	Ecology	Noise	Traffic and Transportation	Health and Safety	INEL Services	Facility Accidents	Cumulative Impacts	Unavoidable Adverse Environmental Affects	Short term/ Long Term Use	Irreversible and Irretrievable Commitments	Mitigation	Environmental Justice	**Environmental Impact Summary**
SNF C-4.1.5 Fort ST. Vrain Spent Nuclear Fuel Receipt and Storage											↑	↑	↑	↑						Slightly positive impacts
SNF C-4.1.6 Spent Fuel Processing																				This project was not selected for implementation in the ROD.
SNF C-4.1.7 Experimental Breeder Reactor-II Blanket Treatment																				Impacts are no different than previously analyzed
SNF C-4.1.8 Electrometallurgical Process Demonstration																				Impacts are no different than previously analyzed
SNF Program – Consolidation of Non-AL SNF at the INEEL										↑	↑	↑	↑	↑						Positive impacts are due to a greatly reduced number of shipments
SNF Program – Transfer of aluminum-clad SNF located at the INEEL to SRS																				Impacts are no different than previously analyzed
SNF Program – Continued Interim Storage of Naval SNF at the INEEL																				Impacts are no different than previously analyzed
SNF Program – CPP-603 Basins Emptied of SNF																				Impacts are no different than previously analyzed

Environmental Discipline ➔ Project and Program Elements ↓	Land Use	Socioeconomics	Cultural Resources	Aesthetic and Scenic Resources	Geology	Air Resources	Water Resources	Ecology	Noise	Traffic and Transportation	Health and Safety	INEL Services	Facility Accidents	Cumulative Impacts	Unavoidable Adverse Environmental Affects	Short term/ Long Term Use	Irreversible and Irretrievable Commitments	Mitigation	Environmental Justice	**Environmental Impact Summary**
SNF Program – Consolidation of INEEL SNF Storage at the INTEC																				Impacts are no different than previously analyzed
WASTE MANAGEMENT																				
WM C-2.8 Transuranic Storage Area Enclosure and Storage Project	↑			↑							↑	↑	↑	↑						Positive impacts are due to: less facilities being built than analyzed and the TSA-RE facility not performing the analyzed operations
WM C-2.9 Waste Characterization Facility	↑			↑		↑	↑			↓	↑	↑	↑	↑						Positive impacts are due to avoidance. The negative traffic and transportation impact is due to overland transportation of wastes to ANL-W and back to RWMC for characterization

Environmental Discipline ➔ Project and Program Elements ↓	Land Use	Socioeconomics	Cultural Resources	Aesthetic and Scenic Resources	Geology	Air Resources	Water Resources	Ecology	Noise	Traffic and Transportation	Health and Safety	INEL Services	Facility Accidents	Cumulative Impacts	Unavoidable Adverse Environmental Affects	Short term/ Long Term Use	Irreversible and Irretrievable Commitments	Mitigation	Environmental Justice	**Environmental Impact Summary**
WM C-2.10 Waste Handling Facility	↑			↑																The positive impacts reflect impacts that didn't occur due to avoidance
WM C-4.4.1 Private Sector Alpha-Contaminated Mixed Low-Level Waste Treatment				↑		↑		↑	↑	↑	↓	↓	↓	↑						The positive impacts are due to locating the facility inside the RWMC facility fence and the facility no longer includes an incinerator. The negative impacts are due to facility operations which relate to operations reassigned from the M&O contractor in activity WM C-2.8
WM C-4.4.2 Radioactive Waste Management Complex Modifications to Support Private Sector Treatment of Alpha-Contaminated Mixed Low-Level Waste	↑					↑				↑	↑	↑	↑	↑						These facility modifications were not required to be built due to the location of the AMWTP, see WM C-4.4.1
WM C-4.4.3 Idaho Waste Processing Facility	↑	↓	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑						This facility was not required to be built due to the AMWTF.

Environmental Discipline ➔ Project and Program Elements ↓	Land Use	Socioeconomics	Cultural Resources	Aesthetic and Scenic Resources	Geology	Air Resources	Water Resources	Ecology	Noise	Traffic and Transportation	Health and Safety	INEL Services	Facility Accidents	Cumulative Impacts	Unavoidable Adverse Environmental Affects	Short term/ Long Term Use	Irreversible and Irretrievable Commitments	Mitigation	Environmental Justice	**Environmental Impact Summary**
WM C-4.4.4 Shipping/Transfer Station																				This project was not selected for implementation in the ROD.
WM C-4.5.1 Waste Experimental Reduction Facility Incineration						↑					↑	↑	↑	↑						Operations impacts are no different than previously analyzed. A recent decision to stop incineration will have a net positive effect
WM C-4.5.3 Mixed Low-Level Waste Treatment Facility																				This project was not selected for implementation in the ROD.
WM C-4.5.4 Mixed Low-Level Waste Disposal Facility	↑		↑	↑	↑	↑	↑	↑			↑	↑	↑	↑						This project was not completed avoiding a number of negative impacts primarily to groundwater.
WM C-4.6.4 Nonincinerable Mixed Waste Treatment						↑					↑	↑	↑	↑						The impacts are less because a majority of the treatment processes will not be performed onsite
WM C-4.6.6 Remote Mixed Waste Treatment Facility																				Impacts are no different than previously analyzed

Environmental Discipline ➔ Project and Program Elements ↓	Land Use	Socioeconomics	Cultural Resources	Aesthetic and Scenic Resources	Geology	Air Resources	Water Resources	Ecology	Noise	Traffic and Transportation	Health and Safety	INEL Services	Facility Accidents	Cumulative Impacts	Unavoidable Adverse Environmental Affects	Short term/ Long Term Use	Irreversible and Irretrievable Commitments	Mitigation	Environmental Justice	**Environmental Impact Summary**
WM C-4.6.7 Sodium Processing Project										↓										Negative impact is due to slightly increased transportation
WM C-4.7.1 Greater-Than-Class-C Dedicated Storage	↑									↑	↑		↑	↑						This project was not required
WM C-4.8.1 Hazardous Waste Treatment, Storage, and Disposal Facilities																				This project was not selected in the ROD
WM C-4.10.2 Plasma Hearth Process Project						↑					↑		↑	↑						Use of nonradioactive surrogates reduced the potential impact.
WM Program – Transuranic Waste																				Impacts are no different than previously analyzed
WM Program – Low-Level Waste						↑	↓					↑		↑						Positive impacts from stopping incineration, negative impacts from less robust waste forms and longer onsite disposal
WM Program – Mixed Low-Level Waste						↑				↓		↑	↑	↑						Positive impacts from stopping incineration, negative impacts from transportation for offsite treatment.
WM Program – Greater-Than-Class C Low-Level Waste																				Impacts are no different than previously analyzed

Environmental Discipline ➔ Project and Program Elements ➔	Land Use	Socioeconomics	Cultural Resources	Aesthetic and Scenic Resources	Geology	Air Resources	Water Resources	Ecology	Noise	Traffic and Transportation	Health and Safety	INEL Services	Facility Accidents	Cumulative Impacts	Unavoidable Adverse Environmental Affects	Short term/ Long Term Use	Irreversible and Irretrievable Commitments	Mitigation	Environmental Justice	**Environmental Impact Summary**
WM Program – Special Case Waste																				Impacts are no different than previously analyzed
WM Program – Hazardous Waste																				Impacts are no different than previously analyzed
WM Program – Industrial Waste																				Impacts are no different than previously analyzed